

Sequence Listing

<110> EPIDAUROS AG .

<120> Polymorphisms in the human hPXR gene and their use in diagnostic and therapeutic applications

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<400> 112
ctttggcact a 11

<210> 113
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 113
tagtgccaaa g 11

<210> 114
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 114
gacactacct t 11

<210> 115
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 115
aaggtagtgt c 11

<210> 116
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 116
gacaccacct t 11

<210> 117
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 117
 aaggtggtgt c 11

<210> 118
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 118
 agtggctgcg a 11

<210> 119
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 119
 tcgcagccac t 11

<210> 120
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 120
 agtggttgcg a 11

<210> 121
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 121
tcgcaaccac t 11

<210> 122
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 122
agtggcggga a 11

<210> 123
<211> 11
<212> DNA
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<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 123
ttcccgccac t 11

<210> 124
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 124
agtgtggga a 11

<210> 125
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 125
ttcccaccac t 11

<210> 126
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 126
aagggggccg c 11

<210> 127
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 127
gcggccccct t 11

<210> 128
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 128
aaggagccg c 11

<210> 129
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 129
gcggctccct t 11

<210> 130
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 130
tggcagggca g 11

<210> 131
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 131
ctgccctgcc a 11

<210> 132
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 132
tggcaaggca g 11

<210> 133
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 133
ctgccttgcc a 11

<210> 134
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 134
acaagatatt g 11

<210> 135
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 135
caatatcttg t 11

<210> 136
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 136
acaaggtatt g 11

<210> 137
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 137
caataccttg t 11

<210> 138
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 138
tccatcctgt t 11

<210> 139
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 139
aacaggatgg a 11

<210> 140
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 140
tccattctgt t 11

<210> 141
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 141
aacagaatgg a 11

<210> 142
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 142
cactacatgc t 11

<210> 143
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 143
agcatgtagt g 11

<210> 144
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

 <400> 144
 cactatatgc t 11

<210> 145
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

 <400> 145
 agcatatagt g 11

<210> 146
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

 <400> 146
 cccccagcc t 11

<210> 147
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

 <400> 147
 aggctggggg g 11

<210> 148
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 148
ccccctagcc t 11

<210> 149
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 149
aggctagggg g 11

<210> 150
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 150
aattcgccat t 11

<210> 151
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 151
aatggcgaat t 11

<210> 152
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 152
aattcaccat t 11

<210> 153
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 153
aatggtgaat t 11

<210> 154
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 154
gtgagggagc c 11

<210> 155
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 155
ggctccctca c 11

<210> 156
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 156
gtgagagagc c 11

<210> 157
<211> 11
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 157
ggctctctca c 11

<210> 158
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 158
tgagcggctg c 11

<210> 159
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 159
gcagccgctc a 11

<210> 160
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 160
tgagcagctg c 11

<210> 161
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: variant of human pregnane X receptor (hPXR) gene

<400> 161
gcagctgctc a 11

<210> 162
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 162
 cttgggtgac a 11

<210> 163
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 163
 tgtcacccaa g 11

<210> 164
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 164
 cttggatgac a 11

<210> 165
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: variant of human pregnane X
 receptor (hPXR) gene

<400> 165
 tgtcacccaa g 11

<210> 166
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS

<222> (83)..(277)

<400> 166

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ctgaggcctc tacacatccc tgtccagtct tttcattctc tgtgggttttc tcatttctag 60
tccaagaggc ccagaagcaa ac ctg gag gtg aga ccc aaa gaa agc tgg aac 112
                        Leu Glu Val Arg Pro Lys Glu Ser Trp Asn
                        1          5          10

cat gct gac ttt gta cac tgt aag gac aca gag tct gtt cct gga aag 160
His Ala Asp Phe Val His Cys Lys Asp Thr Glu Ser Val Pro Gly Lys
                        15          20          25

ccc agt gtc aac gca gat gag gaa gtc gga ggt ccc caa atc tgc cgt 208
Pro Ser Val Asn Ala Asp Glu Glu Val Gly Gly Pro Gln Ile Cys Arg
                        30          35          40

gta tgt ggg gac aag gcc act ggc tat cac ttc aat gtc atg aca tgt 256
Val Cys Gly Asp Lys Ala Thr Gly Tyr His Phe Asn Val Met Thr Cys
                        45          50          55

gaa gga tgc aag ggc ttt ttc aggtagagtt acccatcagc cttcacccac 307
Glu Gly Cys Lys Gly Phe Phe
                        60          65

gtgccaccac tgaccactg ggtaacatct cagggcct 345

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<210> 167

<211> 65

<212> PRT

<213> Homo sapiens

<400> 167

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Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
  1          5          10          15

Cys Lys Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
                        20          25          30

Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
                        35          40          45

Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
                        50          55          60

Phe
65

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<210> 168

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (83)..(277)

<400> 168

ctgaggcctc tacacatccc tgtccagtct tttcattctc tgtgggttttc tcattttctag 60

tccaagagggc ccagaagcaa ac ctg gag gtg aga ccc aaa gaa agc tgg aac 112
 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn
 1 5 10

cat gct gac ttt gta cac tgt gag gac aca gag tct gtt cct gga aag 160
 His Ala Asp Phe Val His Cys Glu Asp Thr Glu Ser Val Pro Gly Lys
 15 20 25

tcc agt gtc aac gca gat gag gaa gtc gga ggt ccc caa atc tgc cgt 208
 Ser Ser Val Asn Ala Asp Glu Glu Val Gly Gly Pro Gln Ile Cys Arg
 30 35 40

gta tgt ggg gac aag gcc act ggc tat cac ttc aat gtc atg aca tgt 256
 Val Cys Gly Asp Lys Ala Thr Gly Tyr His Phe Asn Val Met Thr Cys
 45 50 55

gaa gga tgc aag ggc ttt ttc aggtagagtt acccatcagc cttcaccac 307
 Glu Gly Cys Lys Gly Phe Phe
 60 65

gtgccaccac tgaccactg ggtaacatct cagggcct 345

<210> 169

<211> 65

<212> PRT

<213> Homo sapiens

<400> 169

Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
 1 5 10 15

Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Ser Ser Val Asn Ala Asp
 20 25 30

Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
 35 40 45

Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
 50 55 60

Phe
 65

<210> 170

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (83) .. (277)

<400> 170

ctgaggcctc tacacatccc tgtccagtct tttcattctc tgtgggttttc tcattttctag 60

tccaagaggc ccagaagcaa ac ctg gag gtg aga ccc aaa gaa agc tgg aac 112
 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn
 1 5 10

cat gct gac ttt gta cac tgt gag gac aca gag tct gtt cct gga aag 160
 His Ala Asp Phe Val His Cys Glu Asp Thr Glu Ser Val Pro Gly Lys
 15 20 25

ccc agt gtc aac gca gat gag gaa gtc aga ggt ccc caa atc tgc cgt 208
 Pro Ser Val Asn Ala Asp Glu Glu Val Arg Gly Pro Gln Ile Cys Arg
 30 35 40

gta tgt ggg gac aag gcc act ggc tat cac ttc aat gtc atg aca tgt 256
 Val Cys Gly Asp Lys Ala Thr Gly Tyr His Phe Asn Val Met Thr Cys
 45 50 55

gaa gga tgc aag ggc ttt ttc aggtagagtt acccatcagc cttcaccac 307
 Glu Gly Cys Lys Gly Phe Phe
 60 65

gtgccaccac tgaccactg ggtaacatct cagggcct 345

<210> 171

<211> 65

<212> PRT

<213> Homo sapiens

<400> 171

Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
 1 5 10 15

Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
 20 25 30

Glu Glu Val Arg Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
 35 40 45

Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
 50 55 60

Phe
 65

<210> 172

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (105) .. (290)

<400> 172

taacggcttc tgctgccttg agagggttac acagtggctc tccagggggc tggaggctca 60

ccagggggcac gtgtgcctga gccagcctca ctgtccctgc agtg atc atg tcc gac 116
 Ile Met Ser Asp

1

gag gcc gtg gag gag agg cgg gcc ttg atc aag cgg aag aaa agt gaa 164
 Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys Lys Ser Glu
 5 10 15 20

cgg aca ggg act cag cca ctg gga atg cag ggg ctg aca gag gag cag 212
 Arg Thr Gly Thr Gln Pro Leu Gly Met Gln Gly Leu Thr Glu Glu Gln
 25 30 35

cgg atg atg atc agg gag ctg atg gac gct cag atg aaa acc ttt gac 260
 Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp
 40 45 50

act acc ttc tcc cat ttc aag aat ttc cgg gtaggaggaa ctgcacagtg 310
 Thr Thr Phe Ser His Phe Lys Asn Phe Arg
 55 60

acccgaggtg tcaactgccat cttcattctc acatagaaac tgagggttccc caaggataag 370

aaacttatac aaggtcacag ctaatcagtg gtggagggta gatttggaga gct 423

<210> 173

<211> 62

<212> PRT

<213> Homo sapiens

<400> 173

Ile Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg
 1 5 10 15

Lys Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Met Gln Gly Leu
 20 25 30

Thr Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met
 35 40 45

Lys Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg
 50 55 60

<210> 174

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (105)..(290)

<400> 174

taacggcttc tgctgccttg agagggttac acagtggctc tccagggggc tggaggctca 60

ccagggggcac gtgtgcctga gccagcctca ctgtccctgc agtg atc atg tcc gac 116
 Ile Met Ser Asp
 1

gag gcc gtg gag gag agg cgg gcc ttg atc aag cgg aag aaa agt gaa 164

Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys Lys Ser Glu
 5 10 15 20
 cgg aca ggg act cag cca ctg gga gtg cag ggg ctg aca gag gag cag 212
 Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln
 25 30 35
 cgg atg atg atc agg gag ctg atg gac gct cag atg aaa acc ttt ggc 260
 Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Gly
 40 45 50
 act acc ttc tcc cat ttc aag aat ttc cgg gtaggaggaa ctgcacagtg 310
 Thr Thr Phe Ser His Phe Lys Asn Phe Arg
 55 60
 acccgagggtg tcaactgccat cttcattctc acatagaaac tgagggtccc caaggataag 370
 aaacttatac aaggtcacag ctaatcagtg gtggagggta gatttggaga gct 423

<210> 175
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 175
 Ile Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg
 1 5 10 15
 Lys Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu
 20 25 30
 Thr Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met
 35 40 45
 Lys Thr Phe Gly Thr Thr Phe Ser His Phe Lys Asn Phe Arg
 50 55 60

<210> 176
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (80)..(181)

<400> 176
 gagcaatgcc ctgactctgg gctggactga gcttgtcttt gcccctgat cttgcaccac 60
 acctccctcc cctccagac cgc cca ggt gtg ctg cag cac cgc gtg gtg gac 112
 Arg Pro Gly Val Leu Gln His Arg Val Val Asp
 1 5 10
 cag ctg cag gag caa ttc acc att act ctg aag tcc tac att gaa tgc 160
 Gln Leu Gln Glu Gln Phe Thr Ile Thr Leu Lys Ser Tyr Ile Glu Cys
 15 20 25

aat cgg ccc cag cct gct cat aggtgagcac agcaggggggt gaggaccgct 211
 Asn Arg Pro Gln Pro Ala His
 30

gaggggtgatg tgaggagacc gaggttcagg gaaattgccc aagacttcat ggccagaggg 271

<210> 177
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 177
 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln
 1 5 10 15
 Phe Thr Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro
 20 25 30

Ala His

<210> 178
 <211> 962
 <212> DNA
 <213> Homo sapiens

<220>
 <223> r=g or a, m=c or a, k=g or t, n=c or deleted

<400> 178
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 ttggactgaa atataggtga gagacaagat tgtctcatat ccggggaaat cataacctat 120
 gactaggacg ggaagaggaa gcactgcctt tacttcagtg ggaatctcrg cctcagcctg 180
 caagccaagt gttcacagtg aaaaaagcaa gagaataagc taatactcct gtctctgaama 240
 aggcagcggc tccttggtaa agctactcct tgatcgatcc tttgcaccgg attgttcaaa 300
 gtggacccca ggkgagaagt cggagcaaag aacttaccac caagcaggtg tggtttttct 360
 ttcttttctt tttgctgggg gctgaccgcc cttcagctcc agccaaaaga tgtgtgtgaa 420
 cacaaatata ccttctgttt gaggtcagca tcatagtggg tcgtgaatca tgttggcctt 480
 gctgctgtct cctcatttct agggtgaaaa aaaaaaagca tgaaaacaat cacttaattg 540
 tgagcccat tactgatgct ctctggtcct gcactagcct cctagaaaaa tcaccacagc 600
 cttaactact gcatgagtta ccacaagtca cacatacaac cagctccctg ttacagggct 660
 ggagtccttg gaccagga ataccacctc caaggactgk gggagctggg gactatggga 720
 actgggatca actcagtcct gattcctttt ggctgctgg gttagtgtg gcagccccc 780
 tgaggccaag gacagcagca tgacagtcac caggactcac cacttcaagg aggggtccct 840
 cagagcacct gccatacccc tgcacagtgc tgcggctgag ttggcttcaa accagtgagt 900
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 gg 962

<210> 179
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <223> y=c or t, r=g or a

<400> 179

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ctgaggcctc tacacatccc tgtccagtct ttccattctc ygtgggtttc tcatttctag 60
tccaagagggc ccagaagcaa acctggaggt gagacccaaa gaaagctgga accatgctga 120
ctttgtacac tgtraggaca cagagtctgt tcctggaaaag yccagtgtca acgcagatga 180
ggaagtcrga ggtcccaaaa tctgccgtgt atgtggggac aaggccactg gctatcactt 240
caatgtcatg acatgtgaag gatgcaaggg ctttttcagg tagagttacc catcagcctt 300
caccacgtg ccaccactga cccactgggt aacatctcag ggcct 345

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<210> 180
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <223> y=c or t, s=g or c, k=g or t

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<400> 180
ctgggacgca aaggctagtg tccccctccc cgagtcggta ggggctgggg agggaggtgg 60
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attctctcac aggagggcca tgaaacgcaa cgcccggcts aggtgcccct tccggaaggg 180
cgcctgcgag atcacccgga agacccggcg acagtgccag gcctgccgcc tgcgcaagtg 240
cctggagagy ggcataaaga aggagagtga gcagtgggcg cgcgggcggg ccggcgccgg 300
ggtgcacggc tctgagtaag gacgtgccgt ggggtgtgkc atgcttgtgt ggagatgcgc 360
gccgagtgtg cgcgtgaaca cacgtgcaca tgtgagctgg tgtccgtgtg caacagg 417

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<210> 181
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <223> r=g or a, y=c or t

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<400> 181
taacggcttc tgctgccttg agagggttac acagtggctc tccagggggc tggaggctca 60
ccaggggcac gtgtgcctga gccagcctca ctgtccctgc agtgatcatg tccgacgagg 120
ccgtggagga gaggggggcc ttgatcaagc ggaagaaaag tgaacggaca gggactcagc 180
cactgggart gcaggggctg acagaggagc agcggatgat gatcaggag ctgatggacg 240
ctcagatgaa aacctttgrc acyaccttct cccatttcaa gaatttcgg gtaggaggaa 300
ctgcacagtg acccgaggtg tccactgccat cttcattctc acatagaaac tgaggttccc 360
caaggataag aaacttatac aaggtcacag ctaatcagtg gtggagggtg gatttggaga 420
gct 423

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<210> 182
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <223> y=c or t

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<400> 182
ctgagttggg acctgtctat gaaagcacat gctgtctctc ctctgtccac ctccctggcat 60
gtgtccctagc tgccaggggt gcttagcagt ggytgcgagt tgccagagtc tctgcaggcc 120
ccatcgaggg aagaagctgc caagtggagc caggtccgga aagatctgtg ctctttgaag 180
gtctctctgc agctgcgggg ggaggatggc agtgtctgga actacaaacc cccagccgac 240
agtgggggga aagagatctt ctccctgctg ccccatggtg ctgacatgtc aacctacatg 300

```

ttcaaaggca tcatcagctt tgccaaagtc atctcctact tcaggtagga catggagact 360
 ggggtggttg gtgtggaaaa gaactggaag tggccaggag gttcaaaggg cctgg 415

<210> 183
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <223> r=g or a, y=c or t

<400> 183
 ctgctggtgc cggcctgtgg gctgcctccc agggagctgt cctccccctcc ccateccttgc 60
 tgccagggac ttgcccacgc aggaccagat ctccctgctg aagggrgccg ctttcgagct 120
 gtgtcaactg agattcaaca cagtgttcaa cgcggagact ggaacctggg agtgtggccg 180
 gctgtcctac tgcttggaa acactgcagg tgcccagag agcctgcctg ccctggcaga 240
 gggagggaaa cactgcagtt atgggaggaa gggagctacg ccaggatatg caggttcttg 300
 gatggcargg caggaagatg gaatggtgga aaacaagrta ttggtgaggg atgattagat 360
 cttggtcagc ttgctgagaa gctgccccctc catyctgtta ccatccacag gtggcttcca 420
 gcaacttcta ctggagccca tgctgaaatt ccactayatg ctgaagaagc tgcagctgca 480
 tgaggaggag tatgtgctga tgcaggccat ctccctcttc tccccagggtg aggatctccc 540
 ctaggctgcc tgacatcccc ccyagcctta tctgcctcc ccagggaagg tcccagtc 598

<210> 184
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <223> r=g or a

<400> 184
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 acctccctcc cctccagacc gccaggtgt gctgcagcac cgcgtggtgg accagctgca 120
 ggagcaattc rccattactc tgaagtccta cattgaatgc aatcggtccc agcctgctca 180
 taggtgagca cagcaggggg tgaggaccgg tgaggggtgat gtgagrgagc cgaggttcag 240
 ggaaattgcc caagacttca tggccagagg g 271

<210> 185
 <211> 324
 <212> DNA
 <213> Homo sapiens

<220>
 <223> r=g or a

<400> 185
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 tcttttctct ggctggcatg caggttcttg ttctgaaga tcatggctat gctcaccgag 120
 ctccgcagca tcaatgctca gcacaccag cggctgctgc gcatccagga catacacc 180
 tttgctacgc ccctcatgca ggagttgttc ggcacacag gtagctgagc rgctgccctt 240
 ggrtgacacc tccgagaggc agccagacc agagccctct gagccgccac tcccgggcca 300
 agacagatgg aactgccaa gagc 324